Data from the Commercial Fishery for Lake Whitefish, *Coregonus clupeaformis* (Mitchill), on Great Slave Lake, Northwest Territories, 1996/97 to 1998/99.

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by

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TABLE OF CONTENTS

	Page
ABSTRACT/RÉSUMÉ	v
INTRODUCTION	1
STUDY AREA	1
DESCRIPTION OF THE FISHERY	1
MATERIALS AND METHODS	2
ACKNOWLEDGEMENTS	3
REFERENCES	3

LIST OF FIGURES

Figure		Page
1	Map of Great Slave Lake showing the administrative areas and quotas, areas closed to commercial fishing and the location of fish plants	5

LIST OF TABLES

Table		Page
1	Commercial quotas in effect on Great Slave Lake during the 1975/76 to 1998/99 seasons	6
	Total production of commercial species by administrative area:	
2	1996/1997	7
3	1997/1998	7
4	1998/1999	8
	Production of whitefish and trout from each adminstrative area for winter and summer:	
5	1996/97	8
6	1997/98	9
7	1998/99	9
8	Annual production of commercial species, Great Slave Lake, 1972/73 to 1998/99	10
9	Weight composition by market weight intervals for whitefish from Great Slave Lake commercial fishery, 1996/97	11
10	Age compostion of whitefish for all areas combined from Great Slave Lake commercial fishery, 1996/97	12
	Age composition of commercial whitefish for each seasonal period for 1996/97:	
11	area IW	13
12	area IE	14
13	area II	14
14	area III	15
15	area IV	15
16	area V	16
17	Length compostion of whitefish for all areas combined from Great Slave Lake commercial fishery, 1996/97	17
	Length composition of commercial whitefish for each seasonal period for 1996/97:	
18	area IW	18
19	area IE	19
20	area II	20
21	area III	21
22	area IV	22
23	area V	23
24	Weight composition by market weight intervals for whitefish from Great Slave Lake commercial fishery, 1997/98	24
25	Age compostion of whitefish for all areas combined from Great Slave Lake commercial fishery, 1997/98	25
	Age composition of commercial whitefish for each seasonal period for 1997/98:	
26	area IW	26
27	area II	26
28	area III	27
29	area IV	27
30	area V	28
31	Length compostion of whitefish for all areas combined from Great Slave Lake commercial fishery, 1997/98	29

Table		Page
	Length composition of commercial whitefish for each seasonal period for 1997/98:	
32	area IW	30
33	area II	31
34	area III	32
35	area IV	33
36	area V	34
37	Weight composition by market weight intervals for whitefish from Great Slave Lake commercial fishery, 1998/99	35
38	Age compostion of whitefish for all areas combined from Great Slave Lake commercial fishery, 1998/99	36
	Age composition of commercial whitefish for each seasonal period for 1998/99:	
39	area IW	37
40	area IE	37
41	area II	38
42	area III	38
43	area IV	39
44	Length compostion of whitefish for all areas combined from Great Slave Lake commercial fishery, 1998/99	40
	Length composition of commercial whitefish for each seasonal period for 1998/99:	
45	area IW	41
46	area IE	42
47	area II	43
48	area III	44
49	area IV	45

ABSTRACT

Read, C.J. and W.E.F. Taptuna. 2001. Data from the commercial fishery for lake whitefish, *Coregonus clupeaformis* (Mitchill), on Great Slave Lake, Northwest Territories, 1996/97 to 1998/99. Can. Data Rep. Fish. Aquat. Sci. 1081: v + 45p.

Data from the fish plant sampling program on Great Slave Lake are presented. Production figures for lake whitefish and other species are shown. A total of 4371 lake whitefish were sampled for length, weight and age.

Key words: commercial fishing; fishery management; monitoring.

RÉSUMÉ

Read, C.J. and W.E.F. Taptuna. 2001. Data from the commercial fishery for lake whitefish, *Coregonus clupeaformis* (Mitchill), on Great Slave Lake, Northwest Territories, 1996/97 to 1998/99. Can. Data Rep. Fish. Aquat. Sci. 1081: v + 45p.

Le rapport présente des données sur le programme d'échantillonnage à l'usine de transformation du poisson du Grand lac des Esclaves. On y donne les chiffres de production pour le grand corégone et d'autres espèces. Les données sur l'âge, la longueur et le poids ont été recueillies à partir d'un échantillon de 4371 grands corégones.

Mots-clés: pêche commerciale; gestion des pêches; contrôle.

INTRODUCTION

Commercial fishing first began on Great Slave Lake in 1945. Since then the fishery has been monitored annually for total catch; however, few studies were conducted on the effects of exploitation on the stocks of the commercial species (Rawson 1951, 1953a; Keleher 1972; Kennedy 1956) until the 1970's.

In 1971, the Department of Fisheries began a long term stock assessment and monitoring program designed to collect information considered essential for the sound management of the Great Slave Lake commercial fishery. These programs are consistent with the recommendation of the Great Slave Lake Working Party (1969) outlined in Roberge et al. (1982).

In order to meet these objectives, a three-component field study was implemented including fish plant sampling, fishery observations and experimental gillnetting. Results of this work for the years 1972 to 1995/96 have been described by Bond (1974a, b, 1975a, b), Bond and Turnbull (1973), Moshenko et al. (1978, 1981), Moshenko and Low (1978a, b, 1979, 1980) Roberge et al. (1982, 1984), Low and Read (1987), Low et al. (1989) , Low and Read (1993), Read and Taptuna(1995) and Read and Taptuna (1997).

Only the fish plant sampling component was carried out for the three years of data presented in this report.

STUDY AREA

Great Slave Lake lies in the southwest corner of the District of Mackenzie, Northwest Territories (Fig. 1). It is the fifth largest lake in North America, having a surface area of 27 195 km^2 and a drainage area of 985 300 km^2. Stretching 440 km from its extreme east end to the outlet of the Mackenzie River, the lake straddles two physiographic regions. The northeast shore of the north arm and the east arm lie within the Precambrian Shield and have irregular, precipitous margins. The western portion of the lake overlies the alluvial plain known as the Mackenzie Lowlands and has few islands and gently sloping shores. The rivers entering the lake from the shield are cold, clear and rapidly flowing while those entering from the south are slow flowing brown water streams laden with silt during spring and early summer. While the western basin has a maximum depth of approximately 165 m and a mean depth of 42 m, a depth of 625 m has been recorded in the east arm (Rawson 1950). Physical and biological characteristics of the lake have been described in detail by Rawson (1950, 1951, 1953a, b).

DESCRIPTION OF THE FISHERY

Great Slave Lake has been fished commercially since 1945. During the 1950's annual production of whitefish and trout averaged 2.9 million kg as the large accumulated stock was exploited. Since the 1950's commercial production of both species has decreased annually and whitefish and trout have reacted differently to exploitation (Keleher 1972). The commercial fishery on the west end of the lake has now stabilised and is being managed primarily for whitefish production with secondary consideration for lake trout, the latter being unable to withstand commercial gillnetting. Inconnu are protected by seasonal closures of inshore areas where they tend to congregate.

Gillnets have been the sole means of exploitation by the commercial fishery since its inception. The legal minimum mesh size was 139 mm stretched mesh until regulation changes in 1977 allowed the use of 133 mm mesh as the legal minimum mesh size. In November 1997 the legal mesh size in areas 1E, 2, 3 and 4 was changed to 127 mm stretched mesh. There has been no restriction since 1961 on the number of nets a fisherman may use. Almost the entire lake has been open to commercial fishing at some point in the history of the fishery, although certain areas have been closed to protect subsistence and sport fisheries (Fig. 1 and Northwest Territories Fishery Regulations 1985). The east arm of Great Slave Lake (Area VI) was completely closed to commercial fishing in 1974 and is being managed exclusively for subsistence and sport fishing (Moshenko and Gillman 1978).

There are at least 25 fish species in the lake (Keleher 1972) of which only five are of commercial importance. The major commercial species in decreasing order of importance are: lake whitefish, *Coregonus clupeaformis* (Mitchill); lake trout, *Salvelinus namaycush* (Walbaum); inconnu, *Stenodus leucichthys nelma* (Pallas); northern pike, *Esox lucius* (Linnaeus); and walleye (pickerel), *Stizostedion vitreum vitreum* (Mitchill). Cisco, *Coregonus* spp., burbot, *Lota lota* (Linnaeus) and longnose sucker, *Catostomus catostomus* (Forster) may constitute up to 40% or more of the total catch; however, most are culled on the lake due to a soft market demand.

The commercial portion of the lake is divided into six administrative areas for management purposes and a portion of the total annual quota is allotted to each area (Table 1). The annual quota is based on the period commencing 1 November and terminating on the following 31 October and applies to the combined catch for both the winter and summer fisheries. Previous to the 1990/91 season the entire quota was based on whitefish and trout combined. Starting in the 1990/91 season the quota in administrative areas 1W, 1E, 2, 3, and 4 was based on whitefish only, while the area 5 quota remained combined for whitefish and trout. Other species such as inconnu are managed on an individual basis by closing waters where they are vulnerable to over exploitation. More detailed histories of the commercial fishery on Great Slave Lake are given by Kennedy (1956), Keleher (1972) and Bond and Turnbull (1973). The description of the winter and summer fisheries is summarized by Moshenko et al. (1978).

MATERIALS AND METHODS

Harvest Records And Sampling Procedures

Production summaries of the landings by species by administrative area were compiled from figures supplied by the Freshwater Fish Marketing Corporation (FFMC) .

Production values presented in this report (Tables 2-8) do not include whitefish culls at the plant (as they did in previous reports) or deteriorated whitefish that are discarded on the lake.

The following table lists the factors used to convert various species and forms to round weight:

Species	Form	Conversion Factor
Whitefish	dressed	x 1.17
Pickerel	dressed	x 1.22
	headless dressed	x 1.39
Trout	dressed	x 1.21
	headless dressed	x 1.53
Pike	dressed	x 1.22
	headless dressed	x 1.53
Inconnu	dressed	x 1.16
	headless dressed	x 1.35

Commercial landings of whitefish were sampled from each of the six administrative areas fished during the sample periods. Sampling frequency was based on a schedule as follows:

Winter - December 1 to March 30
Summer - June 10 to July 15
Fall - September 1 to October 15

Some deviations from this schedule resulted because of the unavailability of samples within this time frame. The deviations and resulting season designations are as follows:

1996/97	Area II	Aug 26	fall
1997/98	Area II	Aug 25	fall
1998/99	Area II	Aug 14	fall
	Area IV	Aug 24	fall

Boxes of fish were selected at random from the catches of various harvesters as they arrived at the plant. All whitefish in the box, up to a maximum of 70 fish per individual harvester, were sampled. Thus, the sample of 200 whitefish should have been taken from at least three different harvesters. An additional 10 fish were sampled to compensate for scale samples which were unsuitable for aging. The fish were measured for fork length (to the nearest 1 mm) and dressed weight (to the nearest 5 g). Scales were taken from the left side of the fish from the area just above the lateral line and below the dorsal fin. In the laboratory every second sample was selected for aging.

Biological Data

The scale age of whitefish was determined by counting the number of completed annuli. That is, an age 10 fish was in its eleventh year.

SAS (Version 8.0) for Windows was used to generate the age and length tables.

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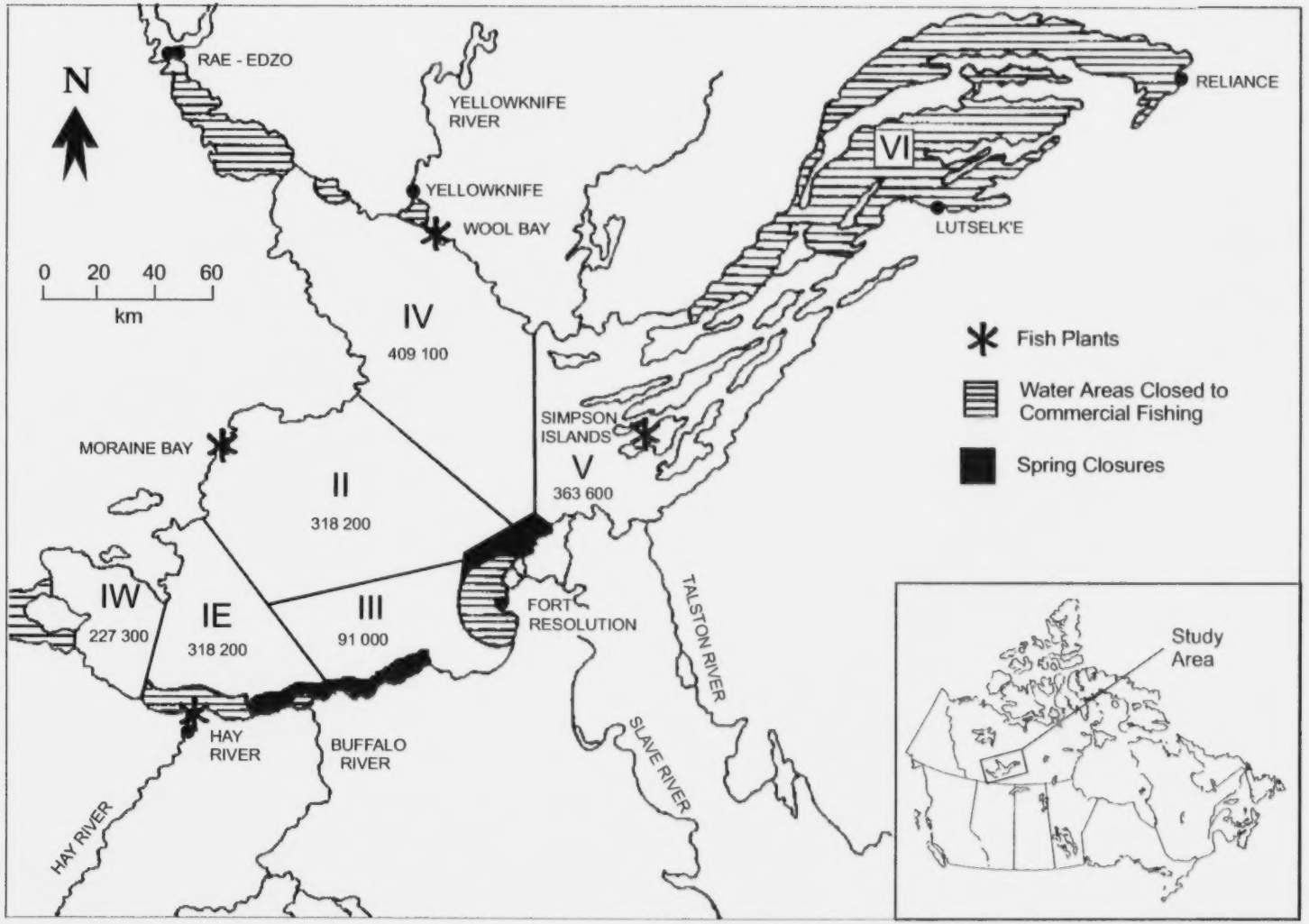

Fig. 1. Map of Great Slave Lake showing the administrative areas and quotas, areas closed to commercial fishing and the location of the fish plants. (The Simpson Islands fish plant has not been in operation since 1991.)

Table 1. Commercial quotas in effect on Great Slave Lake during 1975/76 to 1998/99 seasons.

Year	Commercial Quota of Whitefish and Trout [1] (kg round weight)						
	Area IW	Area IE	Area II	Area III	Area IV	Area V	Total
1975-76	227,273	318,181	681,819	Nil	622,727	325,000	2,175,000
1976-77	227,273	318,181	318,181	Nil	409,091	272,729	1,545,455
1977-78	227,273	318,181	318,181	Nil	409,091	272,729	1,545,455
1978-79	227,273	318,181	318,181	45,455	409,091	295,455	1,613,636
1979-80	227,273	318,181	318,181	45,455	409,091	363,637	1,681,818
1980-81	227,300	318,200	318,200	45,500	409,100	363,600	1,681,900
1981-82	227,300	318,200	318,200	79,500	409,100	363,600	1,715,900
1982-83	227,300	318,200	318,200	45,500	409,100	363,600	1,681,900
1983-84	227,300	318,200	318,200	45,500	409,100	363,600	1,681,900
1984-85	227,300	318,200	318,200	45,500	409,100	363,600	1,681,900
1985-86	227,300	318,200	318,200	70,000	409,100	363,600	1,706,400
1986-87	227,300	318,200	318,200	45,500	409,100	363,600	1,681,900
1987-88	227,300	318,200	318,200	45,500	409,100	363,600	1,681,900
1988-89	227,300	318,200	318,200	45,500	409,100	363,600	1,681,900
1989-90	227,300	318,200	318,200	45,500	409,100	363,600	1,681,900
1990-91[2]	227,300	318,200	318,200	91,000	409,100	363,600	1,727,400
1991-92	227,300	318,200	318,200	91,000	409,100	363,600	1,727,400
992-93	227,300	318,200	318,200	91,000	409,100	363,600	1,727,400
1993-94	227,300	318,200	318,200	91,000	409,100	363,600	1,727,400
1994-95	227,300	318,200	318,200	91,000	409,100	363,600	1,727,400
1995-96	227,300	318,200	318,200	91,000	409,100	363,600	1,727,400
1996-97[3]	247,300	318,200	318,200	91,000	409,100	363,600	1,747,400
1997-98	227,300	318,200	318,200	91,000	409,100	363,600	1,727,400
1998-99	227,300	318,200	318,200	91,000	409,100	363,600	1,727,400

[1] Season runs from November 1 of one year to October 31 of next year.
[2] Quotas previous to the 1990/91 season were a combined quota for whitefish and trout. Starting in the 1990/91 season the quota for Area V remained a combined quota; for other areas the quota was for whitefish only.
[3] The quota for Area1W was increased for the 1996/97 season only.

Table 2. Total production of commercial species (kg round weight) by administrative area, 1996/97.

	Production from each Administration Area						
Species	Area IW	Area IE	Area II	Area III	Area IV	Area V	Total
Whitefish	260,085	124,313	180,444	58,560	284,127	125,503	1,033,032
Trout	6,924	38,624	8,084	745	5,871	43,687	103,935
Pike	61,619	15,099	5,677	2,966	33,564	13,698	132,623
Inconnu	887	7,507	720	16,026	5,398	38,232	68,770
Walleye	1,454	4,338	279	1,413	10,894	377	18,755
Burbot	6,019	9,449	18,544	8,764	14,965	9,503	67,244
Sucker	0	576	0	0	13,363	28	13,967
Total	336,988	199,906	213,748	88,474	368,182	231,028	1,438,326

Note: The Area V quota is for whitefish and trout: other quotas are for whitefish only and other species caught are considered by-catch.

Table 3. Total production of commercial species (kg round weight) by administrative area, 1997/98.

	Production from each Administration Area						
Species	Area IW	Area IE	Area II	Area III	Area IV	Area V	Total
Whitefish	232,836	139,531	189,637	48,488	258,261	39,431	908,184
Trout	11,884	12,373	6,536	556	8,910	52,755	93,014
Pike	76,003	23,440	8,440	1,294	34,952	3,153	147,282
Inconnu	2,870	9,100	539	2,114	4,997	10,520	30,140
Walleye	1,961	7,889	103	529	2,339	35	12,856
Burbot	0	7,754	28,195	3,369	5,298	3,195	47,811
Sucker	0	3,425	1,846	1	7,687	0	12,959
Total	325,554	203,512	235,296	56,351	322,444	109,089	1,252,246

Note: The Area V quota is for whitefish and trout: other quotas are for whitefish only and other species caught are considered by-catch.

Table 4. Total production of commercial species (kg round weight) by administrative area, 1998/99.

	Production from each Administration Area						
Species	Area IW	Area IE	Area II	Area III	Area IV	Area V	Total
Whitefish	243,984	155,409	223,624	31,300	178,027	23,373	855,717
Trout	7,174	11,825	7,566	273	8,041	49,900	84,779
Pike	61,185	7,038	24,115	1,213	29,974	1,320	124,845
Inconnu	3468	10,898	986	610	5,866	5,549	27,377
Walleye	1,879	7,996	228	609	3,006	35	13,753
Burbot	28,032	25,277	37,192	4,477	37,981	4,834	137,793
Sucker	2,037	4,306	2,054	6	3,449	0	11,852
Total	347,759	222,749	295,765	38,488	266,344	85,011	1,256,116

Note: The Area V quota is for whitefish and trout: other quotas are for whitefish only and other species caught are considered by-catch.

Table 5. Production of whitefish and trout (kg round weight) from each adminstrative area for winter and summer, 1996/97.

Administrative Area	Winter		Summer		Total		
	Whitefish	Trout	Whitefish	Trout	Whitefish	Trout	Total
IW	179,734	4,222	80,351	2,702	260,085	6,924	267,009
IE	27,979	2,197	96,334	36,427	124,313	38,624	162,937
II	55,598	1,670	124,846	6,414	180,444	8,084	188,528
III	22,921	564	35,639	181	58,560	745	59,305
IV	194,940	992	89,187	4,879	284,127	5,871	289,998
V	86,228	5,214	39,275	38,473	125,503	43,687	169,190
Total	567,400	14,859	465,632	89,076	1,033,032	103,935	1,136,967

Note: The Area V quota is for whitefish and trout; other quotas are for whitefish only and other species caught are considered by-catch.

Table 6. Production of whitefish and trout (kg round weight) from each adminstrative area for winter and summer, 1997/98.

Administrative Area	Winter		Summer		Total		
	Whitefish	Trout	Whitefish	Trout	Whitefish	Trout	Total
IW	149,584	7,326	83,252	4,558	232,836	11,884	244,720
IE	20,741	1,165	118,790	11,208	139,531	12,373	151,904
II	10,435	387	179,202	6,149	189,637	6,536	196,173
III	22,664	499	25,824	57	48,488	556	49,044
IV	156,754	2,297	101,507	6,613	258,261	8,910	267,171
V	17,782	1,912	21,649	50,843	39,431	52,755	92,186
Total	377,960	13,586	530,224	79,428	908,184	93,014	1,001,198

Note: The Area V quota is for whitefish and trout; other quotas are for whitefish only and other species caught are considered by-catch.

Table 7. Production of whitefish and trout (kg round weight) from each adminstrative area for winter and summer, 1998/99.

Administrative Area	Winter		Summer		Total		
	Whitefish	Trout	Whitefish	Trout	Whitefish	Trout	Total
IW	160,256	2,835	83,728	4,268	243,984	7,103	251,087
IE	56,099	1,392	99,310	10,424	155,409	11,816	167,225
II	25,776	1,395	197,848	6,171	223,624	7,566	231,190
III	3,503	191	27,797	56	31,300	247	31,547
IV	75,590	1,264	102,436	6,777	178,026	8,041	186,067
V	3,174	282	20,200	49,618	23,374	49,900	73,274
Total	324,398	7,359	531,319	77,314	855,717	84,673	940,390

Note: The Area V quota is for whitefish and trout; other quotas are for whitefish only and other species caught are considered by-catch.

Table 8. Annual production (X 1000 kg, round weight) of commercial species, Great Slave Lake, 1972/73 to 1998/99.

Year	Whitefish	Trout	Pike	Inconnu	Walleye	Burbot	Sucker	Total Whitefish & Trout	Total All Species
1972-73	1,004	92	155	103	17			1,096	1,371
1973-74	973	111						1,084	1,084
1974-75	921	99	96	95	10			1,020	1,221
1975-76	975	83	103	77	9			1,058	1,247
1976-77	1,172	108	118	86	11			1,280	1,495
1977-78	1,107	105	157	153	13			1,212	1,535
1978-79	1,065	121	129	153	6			1,186	1,474
1979-80	1,178	122	199	65	19			1,300	1,583
1980-81	1,097	85	151	43	4			1,182	1,380
1981-82	1,139	75	166	23	8			1,214	1,411
1982-83	899	61	115	16	5			960	1,096
1983-84	863	50	108	47	15			913	1,083
1984-85	876	110	155	72	13			986	1,226
1985-86	1,219	107	130	62	12			1,326	1,530
1986-87	1,310	127	140	74	14			1,437	1,665
1987-88	1,438	65	113	74	20			1,503	1,710
1988-89	1,451	137	170	84	20			1,588	1,862
1989-90	1,317	87	204	69	34			1,404	1,711
1990-91	1,452	87	187	54	12	34	7	1,539	1,833
1991-92	1,215	48	162	27	4	>.1	2	1,263	1,458
1992-93	1,202	62	143	43	5	17	0	1,264	1,472
1993-94	1,161	76	139	20	20	>1	0	1,237	1,416
1994-95	1,097	95	224	36	10	6	>.5	1,192	1,468
1995-96	1,153	123	131	54	54	68	8	1,276	1,591
1996-97	1,033	104	133	69	19	67	14	1,137	1,439
1997-98	908	93	147	30	13	48	13	1,001	1,252
1998-99	856	85	125	27	14	138	12	941	1,257

Season runs from November 1 of one year to October 31 of next year.
Burbot and inconnu were not marketed until the 1990/91 season.

Table 9. Weight composition by market weight intervals for whitefish sampled from Great Slave Lake commercial fishery, 1996/97.

MARKET WEIGHT INTERVAL (DRESSED)	AREA IE		AREA IW		AREA II		AREA III		AREA IV		AREA V		TOTAL	
	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%
NO MARKET (< 0.45 kg)	-	-	-	-	2	-	1	-	4	-	-	-	7	-
SMALL (0.45-0.69 kg)	23	7	15	4	31	15	39	9	39	9	15	7	162	8
MEDIUM (0.70-1.39 kg)	294	90	374	89	168	81	367	89	366	87	190	90	1759	88
LARGE (1.40-1.80 kg)	7	2	26	6	4	2	5	1	9	2	5	2	56	3
JUMBO (> 1.80 kg)	1	-	4	-	3	1	2	-	1	-	-	-	11	-
TOTAL	325		419		208		414		419		210		1995	

Table 10. Age composition of whitefish for all areas combined from Great Slave Lake commercial fishery, 1996/97.

AGE (yr)	NO.	%	FORK LENGTH (mm) MEAN	SD.	DRESSED WEIGHT (g) MEAN	SD.
4	1	-	396	-	725	-
5	1	-	311	-	350	-
6	7	0.7	380	21.3	735	136.1
7	74	7.4	392	22.7	767	140.2
8	203	20.2	401	22.4	849	148.3
9	204	20.3	410	26.8	892	177.3
10	180	17.9	413	21.1	914	158.1
11	158	15.7	419	23.0	950	190.0
12	89	8.9	428	20.4	995	164.1
13	49	4.9	442	30.8	1095	234.6
14	20	2.0	450	34.3	1163	347.1
15	14	1.4	457	25.9	1288	263.3
16	4	0.4	472	39.0	1173	232.5
17	1	-	452	-	1045	-
TOTAL	1005					
MEAN			413	28.0	917	199.2
MEAN AGE	9.8					

Table 11. Age composition of commercial whitefish for each seasonal period from area IW for 1996/97.

AGE (yr)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SUMMER NO.	SUMMER MEAN FORK LEN. (mm)	SUMMER MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH (mm) MEAN	TOTAL FORK LENGTH (mm) SD.	TOTAL DRESSED WEIGHT (g) MEAN	TOTAL DRESSED WEIGHT (g) SD.
4	1	396	725	-	-	-	-	-	-	1	396	-	725	-
6	2	393	813	1	382	760	-	-	-	3	389	9.5	795	37.7
7	29	401	828	3	396	813	-	-	-	32	400	17.4	827	114.4
8	18	405	846	22	405	934	-	-	-	40	405	19.0	894	133.3
9	17	419	946	25	415	982	-	-	-	42	417	20.3	967	155.0
10	17	420	963	19	425	1044	-	-	-	36	422	22.6	1006	181.8
11	12	437	1061	15	432	1111	-	-	-	27	434	17.3	1089	161.9
12	5	436	1090	5	449	1196	-	-	-	10	442	21.9	1143	203.3
13	4	448	1166	7	465	1346	-	-	-	11	459	38.2	1280	305.8
14	-	-	-	3	507	1667	-	-	-	3	507	10.8	1667	261.0
15	-	-	-	3	484	1500	-	-	-	3	484	21.1	1500	120.0
16	-	-	-	1	459	1160	-	-	-	1	459	-	1160	-
TOTAL	105			104			-			209				
MEAN		415	923		426	1066		-	-		421	29.0	994	224.0
MEAN AGE	8.9			10.0			-			9.4				

Table 12. Age composition of commercial whitefish for each seasonal period from area IE, 1996/97.

AGE (yr)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SUMMER NO.	SUMMER MEAN FORK LEN. (mm)	SUMMER MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH (mm) MEAN	TOTAL FORK LENGTH (mm) SD.	TOTAL DRESSED WEIGHT (g) MEAN	TOTAL DRESSED WEIGHT (g) SD.
7	1	352	550	-	-	-	5	388	737	6	382	32.8	706	235.5
8	4	373	725	-	-	-	16	408	905	20	401	26.0	869	189.3
9	12	394	810	-	-	-	20	417	922	32	408	25.1	880	121.0
10	14	404	839	-	-	-	25	417	938	39	413	16.2	903	93.6
11	16	418	941	-	-	-	14	434	1121	30	425	19.5	1025	215.6
12	8	429	1036	-	-	-	11	441	1094	19	436	16.1	1070	125.8
13	3	423	950	-	-	-	8	458	1194	11	448	39.2	1127	206.0
14	1	410	780	-	-	-	1	466	1250	2	438	39.6	1015	332.3
15	1	470	1390	-	-	-	-	-	-	1	470	-	1390	-
16	-	-	-	-	-	-	1	529	1505	1	529	-	1505	-
TOTAL	60			-			101			161				
MEAN		408	888		-	-		424	991		418	28.7	953	192.7
MEAN AGE	10.5			-			10.0			10.2				

Table 13. Age composition of commercial whitefish for each seasonal period from area II, 1996/97.

AGE (yr)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SUMMER NO.	SUMMER MEAN FORK LEN. (mm)	SUMMER MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH (mm) MEAN	TOTAL FORK LENGTH (mm) SD.	TOTAL DRESSED WEIGHT (g) MEAN	TOTAL DRESSED WEIGHT (g) SD.
5	-	-	-	-	-	-	1	311	350	1	311	-	350	-
6	-	-	-	-	-	-	3	376	707	3	376	30.8	707	207.4
7	-	-	-	-	-	-	12	382	715	12	382	23.4	715	123.8
8	-	-	-	-	-	-	33	407	863	33	407	25.0	863	167.3
9	-	-	-	-	-	-	29	420	939	29	420	32.4	939	257.9
10	-	-	-	-	-	-	11	416	958	11	416	12.0	958	61.9
11	-	-	-	-	-	-	11	427	985	11	427	29.2	985	178.6
12	-	-	-	-	-	-	3	445	1032	3	445	15.6	1032	54.8
14	-	-	-	-	-	-	1	494	1625	1	494	-	1625	-
TOTAL	-			-			104			104				
MEAN		-	-		-	-		411	893		411	32.4	893	219.9
MEAN AGE	-			-			8.8			8.8				

Table 14. Age composition of commercial whitefish for each seasonal period from area III, 1996/97.

AGE (yr)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SUMMER NO.	SUMMER MEAN FORK LEN. (mm)	SUMMER MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH (mm) MEAN	TOTAL FORK LENGTH (mm) SD.	TOTAL DRESSED WEIGHT (g) MEAN	TOTAL DRESSED WEIGHT (g) SD.
7	-	-	-	-	-	-	14	396	766	14	396	15.6	766	105.5
8	24	382	751	-	-	-	30	404	821	54	394	17.7	790	104.1
9	24	399	857	-	-	-	30	413	874	54	407	24.4	866	138.3
10	30	406	900	-	-	-	8	415	900	38	408	16.4	900	133.1
11	17	408	891	-	-	-	11	423	953	28	414	18.7	915	131.0
12	9	421	997	-	-	-	6	443	1053	15	430	19.8	1020	162.8
13	5	436	1109	-	-	-	3	434	985	8	435	18.4	1063	166.6
14	2	451	1275	-	-	-	-	-	-	2	451	1.4	1275	148.5
TOTAL	111			-			102			213				
MEAN		403	881		-	-		411	868		407	22.6	875	153.3
MEAN AGE	9.9			-			9.0			9.5				

Table 15. Age composition of commercial whitefish for each seasonal period from area IV, 1996/97.

AGE (yr)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SUMMER NO.	SUMMER MEAN FORK LEN. (mm)	SUMMER MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH (mm) MEAN	TOTAL FORK LENGTH (mm) SD.	TOTAL DRESSED WEIGHT (g) MEAN	TOTAL DRESSED WEIGHT (g) SD.
7	1	312	330	-	-	-	9	385	718	10	378	28.1	679	146.0
8	17	398	782	-	-	-	34	408	923	51	405	24.7	876	152.1
9	16	391	766	-	-	-	22	411	919	38	403	30.2	854	192.1
10	27	410	860	-	-	-	18	411	907	45	410	26.6	879	194.8
11	22	410	873	-	-	-	15	416	952	37	413	26.4	905	182.3
12	14	416	888	-	-	-	4	421	893	18	417	20.1	889	117.8
13	4	438	1058	-	-	-	1	435	1105	5	437	11.5	1067	170.0
14	3	425	998	-	-	-	1	471	1500	4	436	26.3	1124	269.9
15	3	459	1353	-	-	-	2	447	1203	5	454	26.6	1293	372.3
TOTAL	107			-			106			213				
MEAN		408	860		-	-		410	917		409	28.4	889	199.2
MEAN AGE	10.3			-			9.3			9.8				

Table 16. Age composition of commercial whitefish for each seasonal period from area V, 1996/97.

AGE (yr)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SUMMER NO.	SUMMER MEAN FORK LEN. (mm)	SUMMER MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH (mm) MEAN	TOTAL FORK LENGTH (mm) SD.	TOTAL DRESSED WEIGHT (g) MEAN	TOTAL DRESSED WEIGHT (g) SD.
6	1	362	640	-	-	-	-	-	-	1	362	-	640	-
8	5	384	701	-	-	-	-	-	-	5	384	14.0	701	53.2
9	9	394	758	-	-	-	-	-	-	9	394	26.4	758	135.2
10	11	402	805	-	-	-	-	-	-	11	402	18.3	805	97.5
11	25	404	802	-	-	-	-	-	-	25	404	15.4	802	112.5
12	24	423	932	-	-	-	-	-	-	24	423	18.3	932	142.1
13	14	428	952	-	-	-	-	-	-	14	428	20.8	952	147.7
14	8	432	946	-	-	-	-	-	-	8	432	20.8	946	231.3
15	5	442	1135	-	-	-	-	-	-	5	442	19.1	1135	117.7
16	2	449	1013	-	-	-	-	-	-	2	449	9.9	1013	17.7
17	1	452	1045	-	-	-	-	-	-	1	452	-	1045	-
TOTAL	105			-			-			105				
MEAN		414	875		-	-		-	-		414	24.6	875	165.7
MEAN AGE	11.6			-			-			11.6				

Table 17. Length composition of whitefish for all areas combined from Great Slave Lake commercial fishery, 1996/97.

LENGTH INTERVAL (mm)	NO.	%	FORK LENGTH (mm) MEAN	FORK LENGTH (mm) SD.	DRESSED WEIGHT (g) MEAN	DRESSED WEIGHT (g) SD.
310-319	2	0.1	312	0.7	340	14.1
320-329	6	0.3	324	2.2	488	53.3
330-339	4	0.2	337	1.8	576	92.3
340-349	14	0.7	344	3.2	503	59.8
350-359	12	0.6	354	2.6	552	39.2
360-369	52	2.6	364	2.6	639	65.8
370-379	84	4.2	374	2.9	681	59.7
380-389	157	7.9	384	3.0	732	66.7
390-399	226	11.3	394	3.0	789	63.0
400-409	365	18.3	403	2.8	851	70.0
410-419	261	13.1	414	2.8	910	81.1
420-429	267	13.4	424	2.7	974	83.6
430-439	219	11.0	433	2.7	1033	105.6
440-449	138	6.9	443	2.6	1092	108.3
450-459	67	3.4	454	2.8	1199	107.1
460-469	47	2.4	463	2.2	1245	135.8
470-479	35	1.8	472	2.4	1362	122.2
480-489	14	0.7	483	2.7	1478	150.4
490-499	4	0.2	495	1.0	1503	322.8
500-509	7	0.4	505	2.3	1704	221.2
510-519	6	0.3	513	2.7	1678	202.2
520-529	5	0.3	524	3.1	1908	240.7
550-559	2	0.1	550	0.0	1710	268.7
570-579	1	-	576	-	2180	-
TOTAL	1995					
MEAN			414	28.8	922	209.4

Table 18. Length composition of commercial whitefish for each seasonal period from area IW, 1996/97.

LENGTH INTERVAL (mm)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SUMMER NO.	SUMMER MEAN FORK LEN. (mm)	SUMMER MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH (mm) MEAN	TOTAL FORK LENGTH (mm) SD.	TOTAL DRESSED WEIGHT (g) MEAN	TOTAL DRESSED WEIGHT (g) SD.
320-329	-	-	-	1	326	500	-	-	-	1	326	-	500	-
360-369	6	364	623	2	363	610	-	-	-	8	364	2.4	619	59.5
370-379	5	375	696	6	372	730	-	-	-	11	373	3.0	715	60.3
380-389	16	384	723	8	384	748	-	-	-	24	384	2.5	731	44.6
390-399	23	394	784	13	395	826	-	-	-	36	394	2.7	799	60.1
400-409	39	403	857	34	402	916	-	-	-	73	403	2.8	884	60.5
410-419	30	414	911	26	413	974	-	-	-	56	413	2.7	940	69.8
420-429	24	424	973	35	424	1039	-	-	-	59	424	2.9	1012	75.3
430-439	27	433	1025	24	434	1099	-	-	-	51	434	2.8	1060	92.0
440-449	17	442	1079	23	444	1189	-	-	-	40	443	2.6	1142	106.2
450-459	5	456	1229	14	453	1266	-	-	-	19	454	3.5	1256	79.4
460-469	9	463	1287	4	463	1335	-	-	-	13	463	2.6	1302	118.8
470-479	3	472	1360	6	473	1423	-	-	-	9	473	2.4	1402	139.5
480-489	3	481	1423	3	485	1613	-	-	-	6	483	3.3	1518	139.2
490-499	-	-	-	1	495	1460	-	-	-	1	495	-	1460	-
500-509	2	505	1645	3	504	1693	-	-	-	5	504	2.3	1674	119.5
510-519	-	-	-	4	513	1630	-	-	-	4	513	3.0	1630	235.8
520-529	1	521	1900	-	-	-	-	-	-	1	521	-	1900	-
550-559	-	-	-	1	550	1900	-	-	-	1	550	-	1900	-
570-579	-	-	-	1	576	2180	-	-	-	1	576	-	2180	-
TOTAL	210			209			-			419				
MEAN		417	944		426	1067		-	-		422	30.7	1005	234.3

Table 19. Length composition of commercial whitefish for each seasonal period from area IE, 1996/97.

LENGTH INTERVAL (mm)	WINTER			SUMMER			FALL			TOTAL				
	NO.	MEAN FORK LEN. (mm)	MEAN DR. WT. (g)	NO.	MEAN FORK LEN. (mm)	MEAN DR. WT. (g)	NO.	MEAN FORK LEN. (mm)	MEAN DR. WT. (g)	NO.	FORK LENGTH (mm) MEAN	FORK LENGTH (mm) SD.	DRESSED WEIGHT (g) MEAN	DRESSED WEIGHT (g) SD.
340-349	1	341	610	-	-	-	-	-	-	1	341	-	610	-
350-359	1	352	550	-	-	-	3	353	535	4	353	2.4	539	47.0
360-369	3	364	625	-	-	-	4	364	579	7	364	3.5	599	69.0
370-379	6	373	679	-	-	-	3	374	638	9	373	3.2	666	70.5
380-389	10	383	708	-	-	-	8	385	775	18	384	2.8	738	113.7
390-399	20	394	807	-	-	-	11	394	788	31	394	3.0	800	38.3
400-409	29	404	852	-	-	-	38	404	865	67	404	2.9	859	68.9
410-419	13	411	909	-	-	-	31	414	917	44	413	2.7	915	69.0
420-429	18	423	971	-	-	-	29	423	996	47	423	2.6	986	66.7
430-439	9	434	1093	-	-	-	35	433	1089	44	433	2.8	1090	146.2
440-449	4	443	1131	-	-	-	15	443	1103	19	443	2.2	1109	83.5
450-459	3	452	1227	-	-	-	14	454	1195	17	454	2.5	1201	83.4
460-469	-	-	-	-	-	-	9	463	1265	9	463	2.7	1265	87.2
470-479	3	472	1277	-	-	-	1	470	1365	4	472	3.0	1299	122.6
480-489	-	-	-	-	-	-	1	481	1335	1	481	-	1335	-
490-499	-	-	-	-	-	-	1	496	1080	1	496	-	1080	-
520-529	-	-	-	-	-	-	1	529	1505	1	529	-	1505	-
550-559	-	-	-	-	-	-	1	550	1520	1	550	-	1520	-
TOTAL	120			-			205			325				
MEAN		407	885		-	-		421	978		416	26.6	944	188.1

Table 20. Length composition of commercial whitefish for each seasonal period from area II, 1996/97.

LENGTH INTERVAL (mm)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SUMMER NO.	SUMMER MEAN FORK LEN. (mm)	SUMMER MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH (mm) MEAN	TOTAL FORK LENGTH (mm) SD.	TOTAL DRESSED WEIGHT (g) MEAN	TOTAL DRESSED WEIGHT (g) SD.
310-319	-	-	-	-	-	-	1	311	350	1	311	-	350	-
320-329	-	-	-	-	-	-	1	324	515	1	324	-	515	-
330-339	-	-	-	-	-	-	2	339	553	2	339	0.7	553	102.5
340-349	-	-	-	-	-	-	6	345	479	6	345	2.7	479	43.3
350-359	-	-	-	-	-	-	3	355	553	3	355	1.5	553	57.5
360-369	-	-	-	-	-	-	8	364	648	8	364	2.2	648	36.7
370-379	-	-	-	-	-	-	5	374	668	5	374	2.0	668	59.6
380-389	-	-	-	-	-	-	16	386	698	16	386	2.6	698	70.1
390-399	-	-	-	-	-	-	32	395	803	32	395	3.0	803	82.5
400-409	-	-	-	-	-	-	34	404	833	34	404	2.6	833	59.1
410-419	-	-	-	-	-	-	22	415	896	22	415	2.8	896	89.5
420-429	-	-	-	-	-	-	15	425	937	15	425	2.4	937	55.6
430-439	-	-	-	-	-	-	25	434	982	25	434	2.4	982	55.1
440-449	-	-	-	-	-	-	12	445	1058	12	445	2.9	1058	84.2
450-459	-	-	-	-	-	-	9	454	1146	9	454	2.3	1146	73.1
460-469	-	-	-	-	-	-	6	463	1138	6	463	1.8	1138	98.3
470-479	-	-	-	-	-	-	5	472	1285	5	472	2.5	1285	74.7
480-489	-	-	-	-	-	-	2	484	1488	2	484	4.2	1488	24.7
490-499	-	-	-	-	-	-	1	494	1625	1	494	-	1625	-
510-519	-	-	-	-	-	-	1	513	1845	1	513	-	1845	-
520-529	-	-	-	-	-	-	2	524	2088	2	524	0.0	2088	46.0
TOTAL	-			-			208			208				
MEAN		-	-		-	-		412	891		412	34.4	891	240.4

Table 21. Length composition of commercial whitefish for each seasonal period from area III, 1996/97.

LENGTH INTERVAL (mm)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SUMMER NO.	SUMMER MEAN FORK LEN. (mm)	SUMMER MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH (mm) MEAN	TOTAL FORK LENGTH (mm) SD.	TOTAL DRESSED WEIGHT (g) MEAN	TOTAL DRESSED WEIGHT (g) SD.
330-339	-	-	-	-	-	-	2	336	600	2	336	0.7	600	113.1
340-349	-	-	-	-	-	-	1	348	440	1	348	-	440	-
350-359	1	358	600	-	-	-	1	350	540	2	354	5.7	570	42.4
360-369	8	364	666	-	-	-	2	367	580	10	365	2.7	649	50.5
370-379	16	374	711	-	-	-	15	375	659	31	374	2.9	685	66.6
380-389	27	384	758	-	-	-	22	385	709	49	385	3.2	736	50.2
390-399	30	393	820	-	-	-	28	395	766	58	394	3.1	794	62.7
400-409	33	403	876	-	-	-	35	404	832	68	404	2.8	853	73.9
410-419	39	414	933	-	-	-	29	415	881	68	414	3.0	911	80.7
420-429	31	423	981	-	-	-	19	425	964	50	424	2.7	975	82.2
430-439	11	432	1022	-	-	-	19	434	989	30	434	2.6	1001	76.8
440-449	7	442	1181	-	-	-	15	443	1034	22	443	2.7	1081	122.4
450-459	4	452	1223	-	-	-	6	454	1163	10	453	2.9	1187	118.8
460-469	-	-	-	-	-	-	3	463	1090	3	463	2.1	1090	52.2
470-479	-	-	-	-	-	-	5	473	1337	5	473	2.3	1337	82.1
480-489	-	-	-	-	-	-	1	483	1425	1	483	-	1425	-
490-499	1	496	1845	-	-	-	-	-	-	1	496	-	1845	-
500-509	1	506	1445	-	-	-	-	-	-	1	506	-	1445	-
510-519	-	-	-	-	-	-	1	516	1700	1	516	-	1700	-
520-529	1	522	1960	-	-	-	-	-	-	1	522	-	1960	-
TOTAL	210			-			204			414				
MEAN		405	894		-	-		411	871		408	25.8	883	180.0

Table 22. Length composition of commercial whitefish for each seasonal period from area IV, 1996/97.

LENGTH INTERVAL (mm)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SUMMER NO.	SUMMER MEAN FORK LEN. (mm)	SUMMER MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH (mm) MEAN	TOTAL FORK LENGTH (mm) SD.	TOTAL DRESSED WEIGHT (g) MEAN	TOTAL DRESSED WEIGHT (g) SD.
310-319	1	312	330	-	-	-	-	-	-	1	312	-	330	-
320-329	1	324	445	-	-	-	3	323	488	4	323	2.5	478	65.5
340-349	5	341	516	-	-	-	1	346	530	6	342	2.8	518	58.0
350-359	1	351	570	-	-	-	1	354	560	2	353	2.1	565	7.1
360-369	6	364	679	-	-	-	7	364	645	13	364	2.6	661	82.5
370-379	13	374	683	-	-	-	11	374	668	24	374	3.0	676	38.8
380-389	14	383	761	-	-	-	20	383	750	34	383	3.0	754	67.9
390-399	27	394	769	-	-	-	23	393	776	50	393	2.9	772	63.0
400-409	38	403	813	-	-	-	47	404	862	85	403	2.7	840	70.2
410-419	23	413	892	-	-	-	21	413	900	44	413	2.6	896	77.6
420-429	26	423	943	-	-	-	31	424	989	57	424	2.8	968	97.9
430-439	27	433	1000	-	-	-	19	433	1065	46	433	2.5	1027	90.4
440-449	14	442	990	-	-	-	11	442	1151	25	442	2.5	1061	119.4
450-459	3	455	1155	-	-	-	4	453	1238	7	454	2.5	1202	160.0
460-469	5	463	1164	-	-	-	4	463	1284	9	463	1.8	1217	133.8
470-479	4	474	1288	-	-	-	4	473	1511	8	473	2.6	1399	127.8
480-489	2	485	1550	-	-	-	1	486	1390	3	485	1.0	1497	271.2
500-509	-	-	-	-	-	-	1	507	2110	1	507	-	2110	-
TOTAL	210			-			209			419				
MEAN		410	870		-	-		409	908		409	28.3	889	199.1

Table 23. Length composition of commercial whitefish for each seasonal period from area V, 1996/97.

LENGTH INTERVAL (mm)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SUMMER NO.	SUMMER MEAN FORK LEN. (mm)	SUMMER MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH (mm) MEAN	TOTAL FORK LENGTH (mm) SD.	TOTAL DRESSED WEIGHT (g) MEAN	TOTAL DRESSED WEIGHT (g) SD.
350-359	1	356	540	-	-	-	-	-	-	1	356	-	540	-
360-369	6	363	635	-	-	-	-	-	-	6	363	2.7	635	78.4
370-379	4	374	640	-	-	-	-	-	-	4	374	3.7	640	71.3
380-389	16	383	703	-	-	-	-	-	-	16	383	2.7	703	46.0
390-399	19	392	752	-	-	-	-	-	-	19	392	2.4	752	45.1
400-409	38	403	806	-	-	-	-	-	-	38	403	2.8	806	59.0
410-419	27	414	872	-	-	-	-	-	-	27	414	2.7	872	101.8
420-429	39	424	925	-	-	-	-	-	-	39	424	2.5	925	73.7
430-439	23	433	969	-	-	-	-	-	-	23	433	2.9	969	69.1
440-449	20	443	1046	-	-	-	-	-	-	20	443	2.6	1046	78.3
450-459	5	455	1088	-	-	-	-	-	-	5	455	2.2	1088	121.0
460-469	7	462	1309	-	-	-	-	-	-	7	462	2.1	1309	182.2
470-479	4	472	1390	-	-	-	-	-	-	4	472	2.7	1390	148.5
480-489	1	481	1355	-	-	-	-	-	-	1	481	-	1355	-
TOTAL	210			-			-			210				
MEAN		416	893		-	-		-	-		416	24.6	893	176.9

Table 24. Weight composition by market weight intervals for whitefish sampled from Great Slave Lake commercial fishery, 1997/98.

MARKET WEIGHT INTERVAL (DRESSED)	AREA IE		AREA IW		AREA II		AREA III		AREA IV		AREA V		TOTAL	
	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%
NO MARKET (< 0.45 kg)	-	-	-	-	5	2	-	-	-	-	-	-	5	-
SMALL (0.45-0.69 kg)	-	-	10	5	52	25	11	5	29	14	12	6	114	11
MEDIUM (0.70-1.39 kg)	-	-	195	94	147	72	195	93	178	85	186	91	901	87
LARGE (1.40-1.80 kg)	-	-	3	1	-	-	2	-	3	1	6	3	14	1
JUMBO (> 1.80 kg)	-	-	-	-	-	-	2	-	-	-	-	-	2	-
TOTAL	-		208		204		210		210		204		1036	

Table 25. Age composition of whitefish for all areas combined from Great Slave Lake commercial fishery, 1997/98.

AGE (yr)	NO.	%	FORK LENGTH (mm) MEAN	SD.	DRESSED WEIGHT (g) MEAN	SD.
4	1	0.2	361	-	640	-
5	1	0.2	321	-	410	-
6	7	1.3	375	23.4	668	120.4
7	31	5.9	380	18.7	685	100.2
8	91	17.3	399	23.6	796	156.5
9	109	20.7	402	19.0	832	134.8
10	75	14.2	408	21.1	863	142.3
11	76	14.4	410	23.4	895	146.6
12	50	9.5	416	20.3	934	156.8
13	42	8.0	422	24.7	961	178.4
14	22	4.2	437	24.4	1110	233.6
15	14	2.7	437	21.0	1148	195.4
16	7	1.3	450	18.0	1242	189.3
17	1	0.2	435	-	1040	-
TOTAL	527					
MEAN			408	25.8	873	186.2
MEAN AGE	10.2					

Table 26. Age composition of commercial whitefish for each seasonal period from area IW, 1997/98.

AGE (yr)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SUMMER NO.	SUMMER MEAN FORK LEN. (mm)	SUMMER MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH (mm) MEAN	TOTAL FORK LENGTH (mm) SD.	TOTAL DRESSED WEIGHT (g) MEAN	TOTAL DRESSED WEIGHT (g) SD.
4	1	361	640	-	-	-	-	-	-	1	361	-	640	-
7	5	390	759	-	-	-	-	-	-	5	390	15.2	759	87.6
8	27	414	915	-	-	-	-	-	-	27	414	19.1	915	141.2
9	27	404	848	-	-	-	-	-	-	27	404	17.8	848	121.7
10	21	417	937	-	-	-	-	-	-	21	417	21.8	937	140.0
11	17	416	951	-	-	-	-	-	-	17	416	16.2	951	125.3
12	4	449	1126	-	-	-	-	-	-	4	449	14.5	1126	113.4
13	3	453	1177	-	-	-	-	-	-	3	453	20.6	1177	216.8
14	2	470	1398	-	-	-	-	-	-	2	470	42.4	1398	307.6
TOTAL	107			-			-			107				
MEAN		414	923		-	-		-	-		414	23.8	923	168.2
MEAN AGE	9.4			-			-			9.4				

Table 27. Age composition of commercial whitefish for each seasonal period from area II, 1997/98.

AGE (yr)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SUMMER NO.	SUMMER MEAN FORK LEN. (mm)	SUMMER MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH (mm) MEAN	TOTAL FORK LENGTH (mm) SD.	TOTAL DRESSED WEIGHT (g) MEAN	TOTAL DRESSED WEIGHT (g) SD.
5	-	-	-	-	-	-	1	321	410	1	321	-	410	-
6	-	-	-	-	-	-	6	375	668	6	375	25.6	668	131.9
7	-	-	-	-	-	-	21	378	665	21	378	21.0	665	106.2
8	-	-	-	-	-	-	43	398	748	43	398	23.7	748	148.2
9	-	-	-	-	-	-	18	405	806	18	405	20.8	806	129.7
10	-	-	-	-	-	-	8	418	841	8	418	10.8	841	96.5
11	-	-	-	-	-	-	4	445	1031	4	445	28.0	1031	215.3
12	-	-	-	-	-	-	2	426	908	2	426	36.8	908	244.0
TOTAL	-			-			103			103				
MEAN		-	-		-	-		397	754		397	27.9	754	159.1
MEAN AGE	-			-			8.2			8.2				

Table 28. Age composition of commercial whitefish for each seasonal period from area III, 1997/98.

AGE (yr)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SUMMER NO.	SUMMER MEAN FORK LEN. (mm)	SUMMER MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH (mm) MEAN	TOTAL FORK LENGTH (mm) SD.	TOTAL DRESSED WEIGHT (g) MEAN	TOTAL DRESSED WEIGHT (g) SD.
7	1	380	625	-	-	-	-	-	-	1	380	-	625	-
8	9	386	788	-	-	-	-	-	-	9	386	13.0	788	124.1
9	41	401	857	-	-	-	-	-	-	41	401	16.8	857	136.3
10	20	411	926	-	-	-	-	-	-	20	411	19.0	926	138.9
11	17	416	928	-	-	-	-	-	-	17	416	16.0	928	121.4
12	14	424	1029	-	-	-	-	-	-	14	424	15.2	1029	137.2
13	5	443	1127	-	-	-	-	-	-	5	443	17.6	1127	186.4
14	1	444	1340	-	-	-	-	-	-	1	444	-	1340	-
TOTAL	108			-			-			108				
MEAN		409	912		-	-		-	-		409	21.0	912	162.1
MEAN AGE	10.0			-			-			10.0				

Table 29. Age composition of commercial whitefish for each seasonal period from area IV, 1997/98.

AGE (yr)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SUMMER NO.	SUMMER MEAN FORK LEN. (mm)	SUMMER MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH (mm) MEAN	TOTAL FORK LENGTH (mm) SD.	TOTAL DRESSED WEIGHT (g) MEAN	TOTAL DRESSED WEIGHT (g) SD.
6	1	373	670	-	-	-	-	-	-	1	373	-	670	-
7	4	377	715	-	-	-	-	-	-	4	377	7.5	715	24.8
8	11	380	722	-	-	-	-	-	-	11	380	14.7	722	54.8
9	19	403	827	-	-	-	-	-	-	19	403	19.8	827	126.2
10	20	397	765	-	-	-	-	-	-	20	397	20.6	765	99.3
11	26	403	859	-	-	-	-	-	-	26	403	25.4	859	146.4
12	10	407	862	-	-	-	-	-	-	10	407	15.6	862	125.5
13	7	420	935	-	-	-	-	-	-	7	420	28.0	935	138.6
14	3	423	952	-	-	-	-	-	-	3	423	21.6	952	132.9
15	4	442	1206	-	-	-	-	-	-	4	442	28.8	1206	249.3
16	1	475	1475	-	-	-	-	-	-	1	475	-	1475	-
TOTAL	106			-			-			106				
MEAN		403	841		-	-		-	-		403	25.6	841	167.2
MEAN AGE	10.5			-			-			10.5				

Table 30. Age composition of commercial whitefish for each seasonal period from area V, 1997/98.

AGE (yr)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SUMMER NO.	SUMMER MEAN FORK LEN. (mm)	SUMMER MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH (mm) MEAN	TOTAL FORK LENGTH (mm) SD.	TOTAL DRESSED WEIGHT (g) MEAN	TOTAL DRESSED WEIGHT (g) SD.
8	1	360	540	-	-	-	-	-	-	1	360	-	540	-
9	4	370	615	-	-	-	-	-	-	4	370	14.5	615	101.2
10	6	388	748	-	-	-	-	-	-	6	388	7.5	748	57.5
11	12	397	801	-	-	-	-	-	-	12	397	21.3	801	122.4
12	20	408	867	-	-	-	-	-	-	20	408	17.1	867	125.9
13	27	415	914	-	-	-	-	-	-	27	415	21.4	914	153.7
14	16	435	1089	-	-	-	-	-	-	16	435	21.5	1089	218.4
15	10	436	1124	-	-	-	-	-	-	10	436	18.7	1124	179.7
16	6	446	1203	-	-	-	-	-	-	6	446	15.6	1203	174.3
17	1	435	1040	-	-	-	-	-	-	1	435	-	1040	-
TOTAL	103			-			-			103				
MEAN		415	932		-	-		-	-		415	26.6	932	211.5
MEAN AGE	12.8			-			-			12.8				

Table 31. Length composition of whitefish for all areas combined from Great Slave Lake commercial fishery, 1997/98.

LENGTH INTERVAL (mm)	NO.	%	FORK LENGTH (mm) MEAN	SD.	DRESSED WEIGHT (g) MEAN	SD.
320-329	1	-	321	-	410	-
330-339	3	0.3	336	2.1	462	18.9
340-349	6	0.6	345	3.0	478	39.5
350-359	15	1.4	353	3.4	538	53.0
360-369	34	3.3	364	3.0	609	61.0
370-379	64	6.2	374	3.1	684	54.3
380-389	106	10.2	384	2.7	736	61.8
390-399	122	11.8	394	2.8	769	66.4
400-409	180	17.4	403	2.8	827	67.7
410-419	153	14.8	413	3.0	888	76.1
420-429	140	13.5	423	2.6	949	87.3
430-439	95	9.2	432	2.7	1029	95.0
440-449	46	4.4	443	2.7	1126	94.8
450-459	29	2.8	453	2.6	1166	107.4
460-469	20	1.9	462	2.4	1275	121.9
470-479	14	1.4	473	2.8	1348	116.0
480-489	3	0.3	484	3.2	1448	307.5
490-499	2	0.2	494	2.1	1500	240.4
500-509	2	0.2	503	3.5	1893	392.4
520-529	1	-	522	-	2295	-
TOTAL	1036					
MEAN			408	26.3	876	194.2

Table 32. Length composition of commercial whitefish for each seasonal period from area IW, 1997/98.

LENGTH INTERVAL (mm)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SUMMER NO.	SUMMER MEAN FORK LEN. (mm)	SUMMER MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH (mm) MEAN	TOTAL FORK LENGTH (mm) SD.	TOTAL DRESSED WEIGHT (g) MEAN	TOTAL DRESSED WEIGHT (g) SD.
340-349	1	347	505	-	-	-	-	-	-	1	347	-	505	-
350-359	1	350	505	-	-	-	-	-	-	1	350	-	505	-
360-369	3	364	660	-	-	-	-	-	-	3	364	2.6	660	26.5
370-379	7	373	666	-	-	-	-	-	-	7	373	3.0	666	52.2
380-389	17	384	754	-	-	-	-	-	-	17	384	2.8	754	58.9
390-399	17	394	801	-	-	-	-	-	-	17	394	2.4	801	49.6
400-409	39	403	837	-	-	-	-	-	-	39	403	3.1	837	60.3
410-419	34	413	892	-	-	-	-	-	-	34	413	2.7	892	53.4
420-429	31	422	965	-	-	-	-	-	-	31	422	2.3	965	71.3
430-439	29	432	1027	-	-	-	-	-	-	29	432	2.1	1027	64.2
440-449	12	441	1132	-	-	-	-	-	-	12	441	1.5	1132	66.3
450-459	6	454	1180	-	-	-	-	-	-	6	454	2.2	1180	71.6
460-469	6	463	1266	-	-	-	-	-	-	6	463	1.8	1266	142.0
470-479	3	472	1343	-	-	-	-	-	-	3	472	0.6	1343	71.8
480-489	1	485	1230	-	-	-	-	-	-	1	485	-	1230	-
500-509	1	500	1615	-	-	-	-	-	-	1	500	-	1615	-
TOTAL	208			-			-			208				
MEAN		414	922		-	-		-	-		414	24.3	922	169.9

Table 33. Length composition of commercial whitefish for each seasonal period from area II, 1997/98.

LENGTH INTERVAL (mm)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SUMMER NO.	SUMMER MEAN FORK LEN. (mm)	SUMMER MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH (mm) MEAN	TOTAL FORK LENGTH (mm) SD.	TOTAL DRESSED WEIGHT (g) MEAN	TOTAL DRESSED WEIGHT (g) SD.
320-329	-	-	-	-	-	-	1	321	410	1	321	-	410	-
330-339	-	-	-	-	-	-	3	336	462	3	336	2.1	462	18.9
340-349	-	-	-	-	-	-	3	346	453	3	346	3.5	453	35.1
350-359	-	-	-	-	-	-	9	354	527	9	354	3.8	527	44.5
360-369	-	-	-	-	-	-	11	365	577	11	365	3.6	577	49.4
370-379	-	-	-	-	-	-	18	375	660	18	375	3.1	660	43.5
380-389	-	-	-	-	-	-	22	384	680	22	384	3.1	680	44.7
390-399	-	-	-	-	-	-	31	394	720	31	394	3.0	720	46.2
400-409	-	-	-	-	-	-	42	403	781	42	403	3.1	781	46.3
410-419	-	-	-	-	-	-	25	413	817	25	413	3.2	817	70.8
420-429	-	-	-	-	-	-	17	422	887	17	422	2.8	887	59.5
430-439	-	-	-	-	-	-	12	433	958	12	433	3.0	958	66.0
440-449	-	-	-	-	-	-	1	443	1060	1	443	-	1060	-
450-459	-	-	-	-	-	-	7	452	1091	7	452	3.2	1091	61.4
470-479	-	-	-	-	-	-	2	474	1273	2	474	5.7	1273	60.1
TOTAL	-			-			204			204				
MEAN		-	-		-	-		398	757		398	26.0	757	151.2

Table 34. Length composition of commercial whitefish for each seasonal period from area III, 1997/98.

LENGTH INTERVAL (mm)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SUMMER NO.	SUMMER MEAN FORK LEN. (mm)	SUMMER MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH (mm) MEAN	TOTAL FORK LENGTH (mm) SD.	TOTAL DRESSED WEIGHT (g) MEAN	TOTAL DRESSED WEIGHT (g) SD.
350-359	1	353	635	-	-	-	-	-	-	1	353	-	635	-
360-369	4	362	611	-	-	-	-	-	-	4	362	2.3	611	94.2
370-379	4	376	693	-	-	-	-	-	-	4	376	3.0	693	54.8
380-389	26	384	752	-	-	-	-	-	-	26	384	3.2	752	60.3
390-399	28	393	803	-	-	-	-	-	-	28	393	2.7	803	70.5
400-409	46	403	858	-	-	-	-	-	-	46	403	2.6	858	72.3
410-419	35	414	916	-	-	-	-	-	-	35	414	2.9	916	63.7
420-429	34	423	992	-	-	-	-	-	-	34	423	3.0	992	95.0
430-439	15	432	1049	-	-	-	-	-	-	15	432	3.0	1049	86.5
440-449	9	443	1181	-	-	-	-	-	-	9	443	2.5	1181	112.0
450-459	2	453	1175	-	-	-	-	-	-	2	453	2.8	1175	91.9
460-469	3	462	1347	-	-	-	-	-	-	3	462	3.2	1347	63.3
480-489	1	486	1800	-	-	-	-	-	-	1	486	-	1800	-
500-509	1	505	2170	-	-	-	-	-	-	1	505	-	2170	-
520-529	1	522	2295	-	-	-	-	-	-	1	522	-	2295	-
TOTAL	210			-			-			210				
MEAN		409	915		-	-		-	-		409	22.9	915	208.1

Table 35. Length composition of commercial whitefish for each seasonal period from area IV, 1997/98.

LENGTH INTERVAL (mm)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SUMMER NO.	SUMMER MEAN FORK LEN. (mm)	SUMMER MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH (mm) MEAN	TOTAL FORK LENGTH (mm) SD.	TOTAL DRESSED WEIGHT (g) MEAN	TOTAL DRESSED WEIGHT (g) SD.
340-349	1	343	530	-	-	-	-	-	-	1	343	-	530	-
350-359	3	352	567	-	-	-	-	-	-	3	352	2.9	567	55.3
360-369	11	363	632	-	-	-	-	-	-	11	363	2.8	632	56.1
370-379	30	373	706	-	-	-	-	-	-	30	373	2.8	706	51.4
380-389	26	384	748	-	-	-	-	-	-	26	384	2.4	748	53.5
390-399	22	394	769	-	-	-	-	-	-	22	394	2.9	769	70.9
400-409	27	402	823	-	-	-	-	-	-	27	402	2.5	823	71.1
410-419	37	413	896	-	-	-	-	-	-	37	413	3.1	896	88.4
420-429	24	423	901	-	-	-	-	-	-	24	423	2.3	901	86.0
430-439	11	433	1013	-	-	-	-	-	-	11	433	2.8	1013	133.3
440-449	10	445	1111	-	-	-	-	-	-	10	445	1.7	1111	101.2
450-459	1	458	1130	-	-	-	-	-	-	1	458	-	1130	-
460-469	3	460	1147	-	-	-	-	-	-	3	460	0.6	1147	67.9
470-479	3	473	1462	-	-	-	-	-	-	3	473	2.6	1462	12.6
490-499	1	492	1330	-	-	-	-	-	-	1	492	-	1330	-
TOTAL	210			-			-			210				
MEAN		402	839		-	-		-	-		402	26.3	839	167.5

Table 36. Length composition of commercial whitefish for each seasonal period from area V, 1997/98.

LENGTH INTERVAL (mm)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SUMMER NO.	SUMMER MEAN FORK LEN. (mm)	SUMMER MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH (mm) MEAN	TOTAL FORK LENGTH (mm) SD.	TOTAL DRESSED WEIGHT (g) MEAN	TOTAL DRESSED WEIGHT (g) SD.
340-349	1	342	470	-	-	-	-	-	-	1	342	-	470	-
350-359	1	353	480	-	-	-	-	-	-	1	353	-	480	-
360-369	5	363	595	-	-	-	-	-	-	5	363	2.2	595	57.7
370-379	5	373	659	-	-	-	-	-	-	5	373	3.0	659	72.6
380-389	15	383	750	-	-	-	-	-	-	15	383	2.1	750	62.6
390-399	24	393	769	-	-	-	-	-	-	24	393	2.7	769	54.6
400-409	26	403	839	-	-	-	-	-	-	26	403	2.9	839	58.7
410-419	22	412	900	-	-	-	-	-	-	22	412	2.7	900	64.5
420-429	34	423	958	-	-	-	-	-	-	34	423	2.8	958	75.7
430-439	28	433	1059	-	-	-	-	-	-	28	433	2.8	1059	106.7
440-449	14	443	1101	-	-	-	-	-	-	14	443	3.1	1101	96.5
450-459	13	453	1202	-	-	-	-	-	-	13	453	2.2	1202	131.6
460-469	8	462	1303	-	-	-	-	-	-	8	462	2.7	1303	115.1
470-479	6	472	1319	-	-	-	-	-	-	6	472	3.0	1319	145.3
480-489	1	480	1315	-	-	-	-	-	-	1	480	-	1315	-
490-499	1	495	1670	-	-	-	-	-	-	1	495	-	1670	-
TOTAL	204			-			-			204				
MEAN		418	947		-	-		-	-		418	27.1	947	205.4

Table 37. Weight composition by market weight intervals for whitefish sampled from Great Slave Lake commercial fishery, 1998/99.

MARKET WEIGHT INTERVAL (DRESSED)	AREA IE		AREA IW		AREA II		AREA III		AREA IV		AREA V		TOTAL	
	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%
NO MARKET (< 0.45 kg)	-	-	-	-	5	2	-	-	1	-	-	-	6	-
SMALL (0.45-0.69 kg)	6	3	9	3	55	27	7	3	67	16	-	-	144	11
MEDIUM (0.70-1.39 kg)	199	95	241	82	146	71	200	95	347	83	-	-	1133	85
LARGE (1.40-1.80 kg)	4	2	40	14	-	-	2	-	4	-	-	-	50	4
JUMBO (> 1.80 kg)	1	-	5	2	-	-	1	-	-	-	-	-	7	-
TOTAL	210		295		206		210		419		-		1340	

Table 38. Age composition of whitefish for all areas combined from Great Slave Lake commercial fishery, 1998/99.

AGE (yr)	NO.	%	FORK LENGTH (mm) MEAN	FORK LENGTH (mm) SD.	DRESSED WEIGHT (g) MEAN	DRESSED WEIGHT (g) SD.
6	7	1.0	342	17.7	511	77.1
7	23	3.4	375	28.8	672	156.1
8	56	8.3	388	20.0	720	116.7
9	107	15.8	395	18.4	788	120.8
10	148	21.8	405	21.1	843	135.3
11	150	22.1	413	22.7	890	143.6
12	91	13.4	427	28.1	983	204.5
13	52	7.7	438	29.5	1073	224.3
14	26	3.8	441	35.7	1117	272.9
15	15	2.2	469	24.4	1293	184.2
16	2	0.3	484	38.2	1290	84.9
17	1	0.1	538	-	1985	-
TOTAL	678					
MEAN			411	31.3	885	211.4
MEAN AGE	10.5					

Table 39. Age composition of commercial whitefish for each seasonal period from area IW, 1998/99.

AGE (yr)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SUMMER NO.	SUMMER MEAN FORK LEN. (mm)	SUMMER MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH (mm) MEAN	TOTAL FORK LENGTH (mm) SD.	TOTAL DRESSED WEIGHT (g) MEAN	TOTAL DRESSED WEIGHT (g) SD.
6	2	346	520	-	-	-	-	-	-	2	346	22.6	520	70.7
7	1	362	570	1	399	825	-	-	-	2	381	26.2	698	180.3
8	6	401	816	3	433	982	-	-	-	9	411	21.1	871	134.4
9	7	395	752	8	419	956	-	-	-	15	408	19.5	861	142.1
10	15	414	848	13	420	932	-	-	-	28	416	14.8	887	101.6
11	11	415	883	16	445	1084	-	-	-	27	433	21.4	1002	154.8
12	3	440	1033	20	452	1140	-	-	-	23	450	25.0	1126	204.0
13	1	422	890	18	459	1194	-	-	-	19	457	20.7	1178	181.3
14	-	-	-	11	462	1258	-	-	-	11	462	36.8	1258	250.9
15	-	-	-	10	482	1392	-	-	-	10	482	15.0	1392	104.2
16	-	-	-	2	484	1290	-	-	-	2	484	38.2	1290	84.9
17	-	-	-	1	538	1985	-	-	-	1	538	-	1985	-
TOTAL	46			103			-			149				
MEAN		407	830		450	1141		-	-		437	34.3	1045	248.2
MEAN AGE	9.8			12.0			-			11.3				

Table 40. Age composition of commercial whitefish for each seasonal period from area IE, 1998/99.

AGE (yr)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SUMMER NO.	SUMMER MEAN FORK LEN. (mm)	SUMMER MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH (mm) MEAN	TOTAL FORK LENGTH (mm) SD.	TOTAL DRESSED WEIGHT (g) MEAN	TOTAL DRESSED WEIGHT (g) SD.
7	-	-	-	3	427	963	-	-	-	3	427	21.6	963	138.1
9	-	-	-	12	396	829	-	-	-	12	396	27.2	829	181.0
10	-	-	-	30	412	901	-	-	-	30	412	23.2	901	167.5
11	-	-	-	32	414	876	-	-	-	32	414	22.9	876	120.7
12	-	-	-	16	434	1053	-	-	-	16	434	32.0	1053	271.5
13	-	-	-	8	428	1002	-	-	-	8	428	34.3	1002	213.4
14	-	-	-	3	406	848	-	-	-	3	406	13.7	848	114.1
TOTAL	-			104			-			104				
MEAN		-	-		416	916		-	-		416	27.3	916	188.0
MEAN AGE	-			10.8			-			10.8				

Table 41. Age composition of commercial whitefish for each seasonal period from area II, 1998/99.

AGE (yr)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SUMMER NO.	SUMMER MEAN FORK LEN. (mm)	SUMMER MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH (mm) MEAN	TOTAL FORK LENGTH (mm) SD.	TOTAL DRESSED WEIGHT (g) MEAN	TOTAL DRESSED WEIGHT (g) SD.
6	-	-	-	-	-	-	4	336	506	4	336	18.2	506	100.6
7	-	-	-	-	-	-	14	365	626	14	365	18.5	626	89.5
8	-	-	-	-	-	-	34	382	689	34	382	14.6	689	74.6
9	-	-	-	-	-	-	30	392	752	30	392	16.5	752	91.7
10	-	-	-	-	-	-	13	404	797	13	404	11.3	797	45.3
11	-	-	-	-	-	-	5	428	898	5	428	16.5	898	176.4
12	-	-	-	-	-	-	1	430	945	1	430	-	945	-
14	-	-	-	-	-	-	2	437	1023	2	437	9.2	1023	3.5
TOTAL	-			-			103			103				
MEAN		-	-		-	-		387	725		387	23.9	725	123.1
MEAN AGE	-			-			8.6			8.6				

Table 42. Age composition of commercial whitefish for each seasonal period from area III, 1998/99.

AGE (yr)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SUMMER NO.	SUMMER MEAN FORK LEN. (mm)	SUMMER MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH (mm) MEAN	TOTAL FORK LENGTH (mm) SD.	TOTAL DRESSED WEIGHT (g) MEAN	TOTAL DRESSED WEIGHT (g) SD.
8	-	-	-	2	384	725	-	-	-	2	384	2.1	725	63.6
9	-	-	-	20	392	829	-	-	-	20	392	13.5	829	108.2
10	-	-	-	16	403	900	-	-	-	16	403	20.7	900	138.4
11	-	-	-	30	411	944	-	-	-	30	411	15.3	944	115.3
12	-	-	-	16	417	975	-	-	-	16	417	12.3	975	94.9
13	-	-	-	11	434	1111	-	-	-	11	434	20.7	1111	270.2
14	-	-	-	8	433	1137	-	-	-	8	433	24.3	1137	266.9
15	-	-	-	3	437	1110	-	-	-	3	437	12.9	1110	108.2
TOTAL	-			106			-			106				
MEAN		-	-		411	953		-	-		411	21.8	953	179.2
MEAN AGE	-			11.1			-			11.1				

Table 43. Age composition of commercial whitefish for each seasonal period from area IV, 1998/99.

AGE (yr)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SUMMER NO.	SUMMER MEAN FORK LEN. (mm)	SUMMER MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH (mm) MEAN	TOTAL FORK LENGTH (mm) SD.	TOTAL DRESSED WEIGHT (g) MEAN	TOTAL DRESSED WEIGHT (g) SD.
6	-	-	-	-	-	-	1	356	515	1	356	-	515	-
7	-	-	-	-	-	-	4	371	601	4	371	27.7	601	137.4
8	4	371	616	-	-	-	7	391	728	11	384	22.5	687	127.1
9	10	386	700	-	-	-	20	397	755	30	393	18.9	737	94.9
10	27	382	718	-	-	-	34	409	844	61	397	21.2	789	120.4
11	34	393	778	-	-	-	22	417	870	56	402	20.5	814	115.2
12	21	399	809	-	-	-	14	432	943	35	412	22.6	862	126.8
13	8	404	849	-	-	-	6	444	1063	14	421	30.4	940	178.2
14	2	424	863	-	-	-	-	-	-	2	424	48.1	863	194.5
15	1	435	900	-	-	-	1	475	1250	2	455	28.3	1075	247.5
TOTAL	107			-			109			216				
MEAN		392	764		-	-		411	842		401	24.5	803	140.2
MEAN AGE	10.9			-			10.2			10.5				

Table 44. Length composition of whitefish for all areas combined from Great Slave Lake commercial fishery, 1998/99.

LENGTH INTERVAL (mm)	NO.	%	FORK LENGTH (mm) MEAN	SD.	DRESSED WEIGHT (g) MEAN	SD.
310-319	1	-	310	-	350	-
320-329	4	0.3	325	1.9	416	50.2
330-339	4	0.3	333	2.1	468	22.5
340-349	10	0.7	343	3.8	497	44.7
350-359	15	1.1	355	3.0	589	41.6
360-369	41	3.1	364	2.3	620	46.6
370-379	78	5.8	374	3.0	666	57.1
380-389	133	9.9	384	2.9	736	61.2
390-399	200	14.9	393	2.8	776	65.2
400-409	202	15.1	404	2.7	828	67.0
410-419	185	13.8	414	2.9	900	75.9
420-429	137	10.2	424	2.8	940	80.6
430-439	105	7.8	434	2.8	1018	85.4
440-449	53	4.0	444	3.1	1060	94.0
450-459	60	4.5	454	2.9	1147	83.8
460-469	34	2.5	465	3.0	1261	117.3
470-479	24	1.8	475	2.7	1318	115.4
480-489	20	1.5	484	2.7	1403	219.2
490-499	10	0.7	495	3.4	1372	230.0
500-509	9	0.7	505	3.5	1493	85.0
510-519	6	0.4	514	4.0	1663	246.0
520-529	5	0.4	523	3.6	1713	281.7
530-539	2	0.1	535	4.2	1805	254.6
540-549	1	-	541	-	1915	-
550-559	1	-	555	-	1615	-
TOTAL	1340					
MEAN			412	32.6	894	220.3

Table 45. Length composition of commercial whitefish for each seasonal period from area IW, 1998/99.

LENGTH INTERVAL (mm)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SUMMER NO.	SUMMER MEAN FORK LEN. (mm)	SUMMER MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH (mm) MEAN	TOTAL FORK LENGTH (mm) SD.	TOTAL DRESSED WEIGHT (g) MEAN	TOTAL DRESSED WEIGHT (g) SD.
330-339	1	330	470	-	-	-	-	-	-	1	330	-	470	-
360-369	3	363	597	-	-	-	-	-	-	3	363	1.2	597	46.2
370-379	3	375	672	2	371	705	-	-	-	5	373	3.1	685	21.5
380-389	6	386	703	1	384	795	-	-	-	7	386	2.1	716	45.5
390-399	11	394	761	7	396	803	-	-	-	18	394	2.6	777	43.4
400-409	18	404	822	6	406	847	-	-	-	24	405	2.9	828	35.7
410-419	12	413	844	22	416	928	-	-	-	34	415	3.2	898	64.3
420-429	16	422	907	17	425	978	-	-	-	33	424	3.2	944	76.9
430-439	11	433	978	28	435	1038	-	-	-	39	434	2.8	1021	66.9
440-449	1	440	1000	19	445	1052	-	-	-	20	444	3.5	1049	105.9
450-459	5	453	1162	26	455	1150	-	-	-	31	454	2.6	1152	81.1
460-469	1	462	1285	19	466	1255	-	-	-	20	465	2.8	1257	107.9
470-479	1	470	1150	16	475	1320	-	-	-	17	475	2.9	1310	129.3
480-489	-	-	-	14	484	1411	-	-	-	14	484	2.8	1411	130.7
490-499	-	-	-	9	495	1443	-	-	-	9	495	3.6	1443	38.3
500-509	-	-	-	8	506	1492	-	-	-	8	506	3.2	1492	90.9
510-519	-	-	-	4	513	1593	-	-	-	4	513	4.1	1593	273.8
520-529	-	-	-	4	523	1800	-	-	-	4	523	4.0	1800	235.2
530-539	-	-	-	2	535	1805	-	-	-	2	535	4.2	1805	254.6
540-549	-	-	-	1	541	1915	-	-	-	1	541	-	1915	-
550-559	1	555	1615	-	-	-	-	-	-	1	555	-	1615	-
TOTAL	90			205			-			295				
MEAN		412	866		452	1159		-	-		440	36.6	1070	267.0

Table 46. Length composition of commercial whitefish for each seasonal period from area IE, 1998/99.

LENGTH INTERVAL (mm)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SUMMER NO.	SUMMER MEAN FORK LEN. (mm)	SUMMER MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH (mm) MEAN	TOTAL FORK LENGTH (mm) SD.	TOTAL DRESSED WEIGHT (g) MEAN	TOTAL DRESSED WEIGHT (g) SD.
360-369	-	-	-	2	365	660	-	-	-	2	365	4.9	660	7.1
370-379	-	-	-	10	375	708	-	-	-	10	375	3.5	708	59.2
380-389	-	-	-	13	384	735	-	-	-	13	384	2.7	735	45.6
390-399	-	-	-	32	394	785	-	-	-	32	394	2.9	785	42.0
400-409	-	-	-	36	404	833	-	-	-	36	404	2.6	833	62.2
410-419	-	-	-	42	414	891	-	-	-	42	414	2.5	891	57.5
420-429	-	-	-	24	424	939	-	-	-	24	424	2.8	939	72.1
430-439	-	-	-	17	433	1002	-	-	-	17	433	2.7	1002	86.5
440-449	-	-	-	9	444	1069	-	-	-	9	444	3.7	1069	72.8
450-459	-	-	-	11	456	1156	-	-	-	11	456	2.7	1156	79.6
460-469	-	-	-	3	463	1157	-	-	-	3	463	2.3	1157	93.9
470-479	-	-	-	4	476	1349	-	-	-	4	476	2.6	1349	36.6
480-489	-	-	-	3	484	1180	-	-	-	3	484	3.8	1180	384.3
490-499	-	-	-	1	497	725	-	-	-	1	497	-	725	-
510-519	-	-	-	2	517	1803	-	-	-	2	517	3.5	1803	137.9
520-529	-	-	-	1	521	1365	-	-	-	1	521	-	1365	-
TOTAL	-			210			-			210				
MEAN		-	-		416	907		-	-		416	27.8	907	180.3

Table 47. Length composition of commercial whitefish for each seasonal period from area II, 1998/99.

LENGTH INTERVAL (mm)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SUMMER NO.	SUMMER MEAN FORK LEN. (mm)	SUMMER MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH (mm) MEAN	TOTAL FORK LENGTH (mm) SD.	TOTAL DRESSED WEIGHT (g) MEAN	TOTAL DRESSED WEIGHT (g) SD.
310-319	-	-	-	-	-	-	1	310	350	1	310	-	350	-
320-329	-	-	-	-	-	-	4	325	416	4	325	1.9	416	50.2
330-339	-	-	-	-	-	-	1	335	495	1	335	-	495	-
340-349	-	-	-	-	-	-	5	343	494	5	343	3.6	494	36.5
350-359	-	-	-	-	-	-	9	354	591	9	354	3.1	591	35.0
360-369	-	-	-	-	-	-	10	364	628	10	364	2.2	628	52.0
370-379	-	-	-	-	-	-	24	373	637	24	373	3.3	637	43.4
380-389	-	-	-	-	-	-	35	384	722	35	384	2.8	722	45.7
390-399	-	-	-	-	-	-	40	392	740	40	392	2.4	740	50.2
400-409	-	-	-	-	-	-	40	403	795	40	403	3.0	795	49.9
410-419	-	-	-	-	-	-	14	412	830	14	412	2.7	830	45.8
420-429	-	-	-	-	-	-	13	424	905	13	424	2.8	905	72.4
430-439	-	-	-	-	-	-	6	432	940	6	432	3.2	940	65.1
440-449	-	-	-	-	-	-	3	441	972	3	441	1.7	972	48.6
450-459	-	-	-	-	-	-	1	450	1180	1	450	-	1180	-
TOTAL	-						206			206				
MEAN		-	-					390	736		390	23.8	736	124.6

Table 48. Length composition of commercial whitefish for each seasonal period from area III, 1998/99.

LENGTH INTERVAL (mm)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SUMMER NO.	SUMMER MEAN FORK LEN. (mm)	SUMMER MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH (mm) MEAN	TOTAL FORK LENGTH (mm) SD.	TOTAL DRESSED WEIGHT (g) MEAN	TOTAL DRESSED WEIGHT (g) SD.
340-349	-	-	-	1	349	530	-	-	-	1	349	-	530	-
350-359	-	-	-	1	359	555	-	-	-	1	359	-	555	-
360-369	-	-	-	3	361	628	-	-	-	3	361	1.5	628	28.4
370-379	-	-	-	7	375	739	-	-	-	7	375	2.9	739	47.7
380-389	-	-	-	26	386	803	-	-	-	26	386	2.6	803	57.0
390-399	-	-	-	31	395	865	-	-	-	31	395	3.0	865	68.9
400-409	-	-	-	35	404	895	-	-	-	35	404	2.2	895	74.9
410-419	-	-	-	44	415	964	-	-	-	44	415	2.9	964	74.9
420-429	-	-	-	25	425	1019	-	-	-	25	425	2.4	1019	57.0
430-439	-	-	-	19	434	1110	-	-	-	19	434	2.9	1110	64.0
440-449	-	-	-	8	444	1131	-	-	-	8	444	2.5	1131	89.7
450-459	-	-	-	6	455	1215	-	-	-	6	455	3.3	1215	74.0
460-469	-	-	-	2	467	1508	-	-	-	2	467	0.7	1508	123.7
470-479	-	-	-	1	471	1260	-	-	-	1	471	-	1260	-
480-489	-	-	-	1	486	1890	-	-	-	1	486	-	1890	-
TOTAL	-			210			-			210				
MEAN		-	-		410	946		-	-		410	22.0	946	164.6

Table 49. Length composition of commercial whitefish for each seasonal period from area IV, 1998/99.

LENGTH INTERVAL (mm)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SUMMER NO.	SUMMER MEAN FORK LEN. (mm)	SUMMER MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH (mm) MEAN	TOTAL FORK LENGTH (mm) SD.	TOTAL DRESSED WEIGHT (g) MEAN	TOTAL DRESSED WEIGHT (g) SD.
330-339	1	333	465	-	-	-	1	333	440	2	333	0.0	453	17.7
340-349	3	344	503	-	-	-	1	340	460	4	343	3.8	493	61.7
350-359	4	354	613	-	-	-	1	356	515	5	355	2.7	593	57.3
360-369	20	364	625	-	-	-	3	365	550	23	364	2.2	615	47.9
370-379	24	374	674	-	-	-	8	374	605	32	374	2.6	656	51.2
380-389	37	383	718	-	-	-	15	383	710	52	383	2.7	716	55.7
390-399	45	393	765	-	-	-	34	394	743	79	393	2.7	755	48.7
400-409	36	403	810	-	-	-	31	403	812	67	403	2.7	811	58.8
410-419	19	412	887	-	-	-	32	413	864	51	413	2.8	873	67.8
420-429	8	423	935	-	-	-	34	423	893	42	423	2.6	901	69.7
430-439	5	433	996	-	-	-	19	433	966	24	433	2.5	972	72.3
440-449	3	445	1097	-	-	-	10	443	1031	13	444	2.6	1046	78.4
450-459	1	458	1000	-	-	-	10	452	1092	11	452	2.9	1084	71.8
460-469	3	463	1232	-	-	-	6	463	1258	9	463	3.0	1249	74.5
470-479	-	-	-	-	-	-	2	476	1358	2	476	0.7	1358	152.0
480-489	-	-	-	-	-	-	2	483	1435	2	483	0.7	1435	77.8
500-509	-	-	-	-	-	-	1	500	1500	1	500	-	1500	-
TOTAL	209			-			210			419				
MEAN		392	768		-	-		413	863		403	26.1	816	162.2